Interoperability
DoD/VA and Beyond

Ms. Lois Kellett

2008 Joint Venture Conference

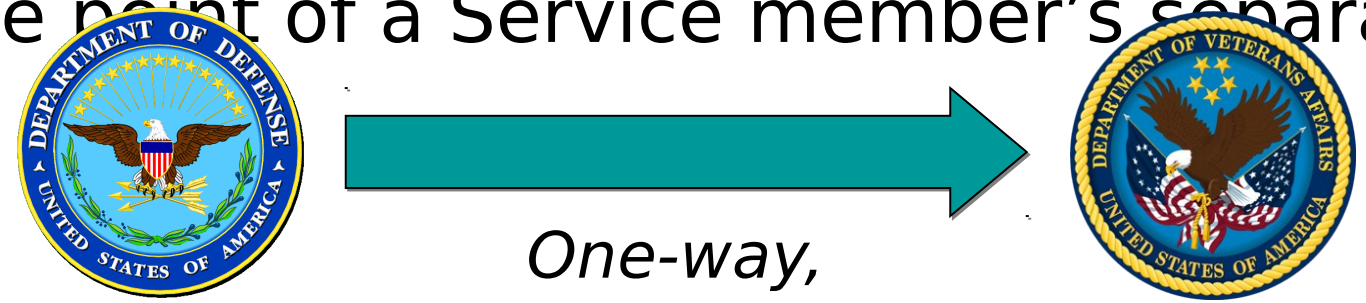
March 4, 2008

Agenda

- Where We Are Now
  - Transfer of data
  - Viewable data
  - Computable data
  - Order portability
  - Image transfer
- Potential Joint DoD/VA Health IT Initiatives
- Wounded, Ill, and Injured Line of Action #4
- The Way Ahead
- Contact information

Point of Separation

The Federal Health Information Exchange (FHIE) supports the monthly, one-time transfer of
electronic health information from DoD to VA at the point of a Service member's separation



One-way, Enterprise exchange, Text data

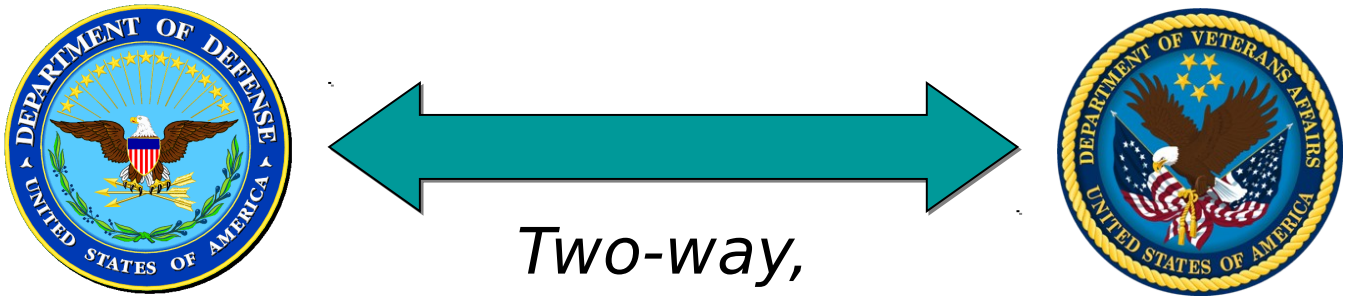
Point of Separation (FHIE Data)

- Lab results
- Radiology reports
- Outpatient Rx data
- Allergy information
- Discharge summaries
- Consult reports
- Admission/Discharge/Transfer information
- Standard Ambulatory Data Record elements
- Demographic data
- Pre-/Post-Deployment Health Assessments
- Post-Deployment Health Reassessments

- 211 million messages
- On 4.2 million retired or discharged Service members

Shared Patient Data

The Bidirectional Health Information Exchange (BHIE) enables real-time sharing of ***viewable*** electronic health information between DoD and VA for shared patients



Two-way,
All DoD and VA sites,
Text data

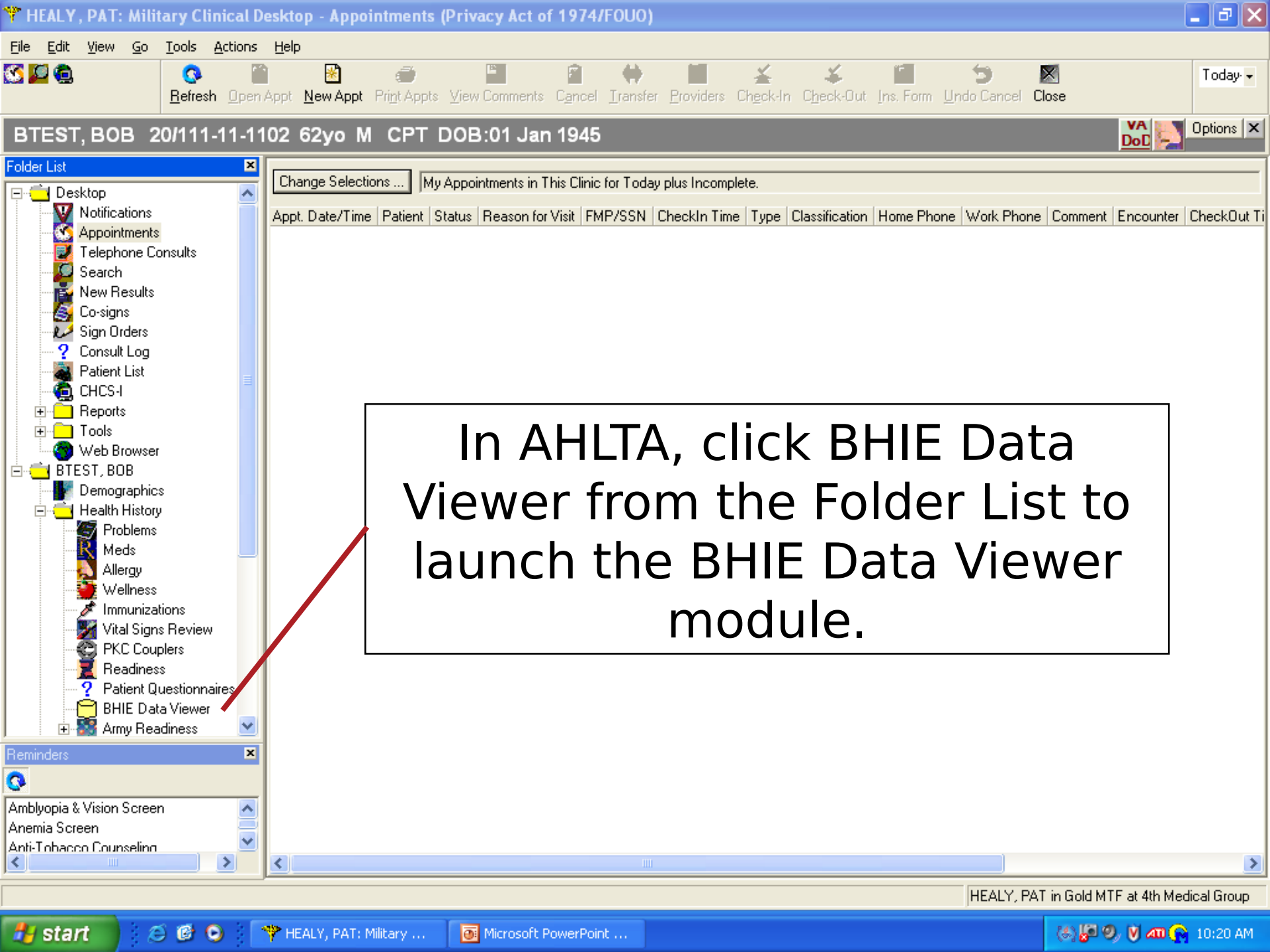
Shared Patients BHIE Data — Current

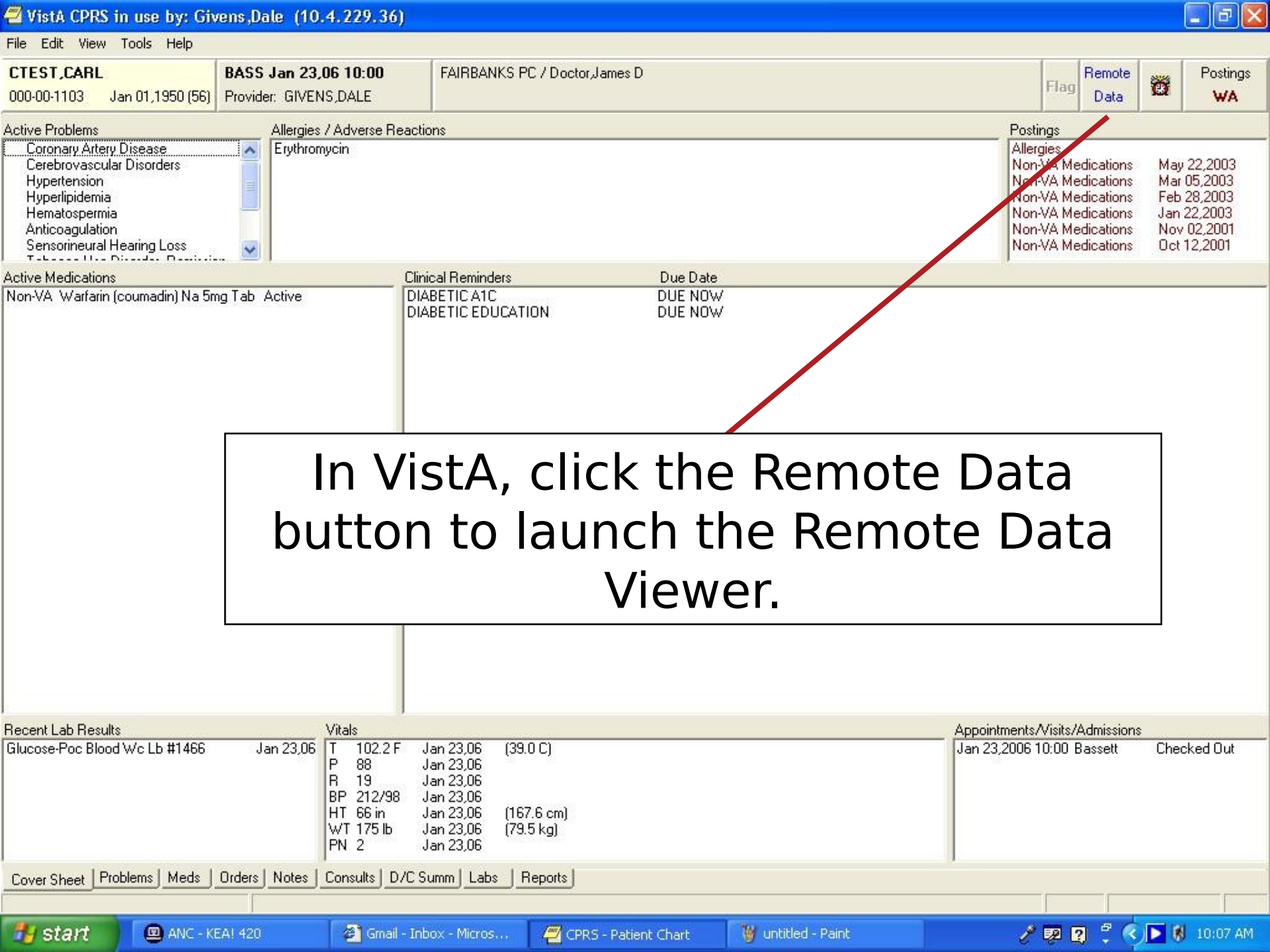
- Allergies
- Outpatient pharmacy
- Demographics
- Inpatient and outpatient lab results
- radiology reports
- Encounter notes
- Procedures
- Problem lists
- Discharge summaries
- Operative notes (MAMC/VA Puget Sound)
- Inpatient consultations (MAMC/VA Puget Sound)
- Theater clinical data

BHIE supports care for more than 2.9 million patients to date

DoD providers access VA data through AHLTA

VA providers access DoD data through VistA or VistA Web


HEALY, PAT: Military Clinical Desktop - Appointments (Privacy Act of 1974/FOUO)
File Edit View Go Tools Actions Help
Refresh Open Appt New Appt Print Appts View Comments Cancel Transfer Providers Check-In Check-Out Ins. Form Undo Cancel Close
Today
BTEST, BOB 20/111-11-1102 62yo M CPT DOB:01 Jan 1945
VA DoD
Options
Folder List
Desktop
Notifications
Appointments
Telephone Consults
Search
New Results
Co-signs
Sign Orders
Consult Log
Patient List
CHCS-I
Reports
Tools
Web Browser
BTEST, BOB
Demographics
Health History
Problems
Meds
Allergy
Wellness
Immunizations
Vital Signs Review
PKC Couplers
Readiness
Patient Questionnaires
BHIE Data Viewer
Army Readiness
Change Selections ...
My Appointments in This Clinic for Today plus Incomplete.
Appt. Date/Time Patient Status Reason for Visit FMP/SSN CheckIn Time Type Classification Home Phone Work Phone Comment Encounter CheckOut Ti
In AHLTA, click BHIE Data Viewer from the Folder List to launch the BHIE Data Viewer module.
Reminders
Amblyopia & Vision Screen
Anemia Screen
Anti-Tobacco Counseling
HEALY, PAT in Gold MTF at 4th Medical Group
start
HEALY, PAT: Military ...
Microsoft PowerPoint ...
10:20 AM

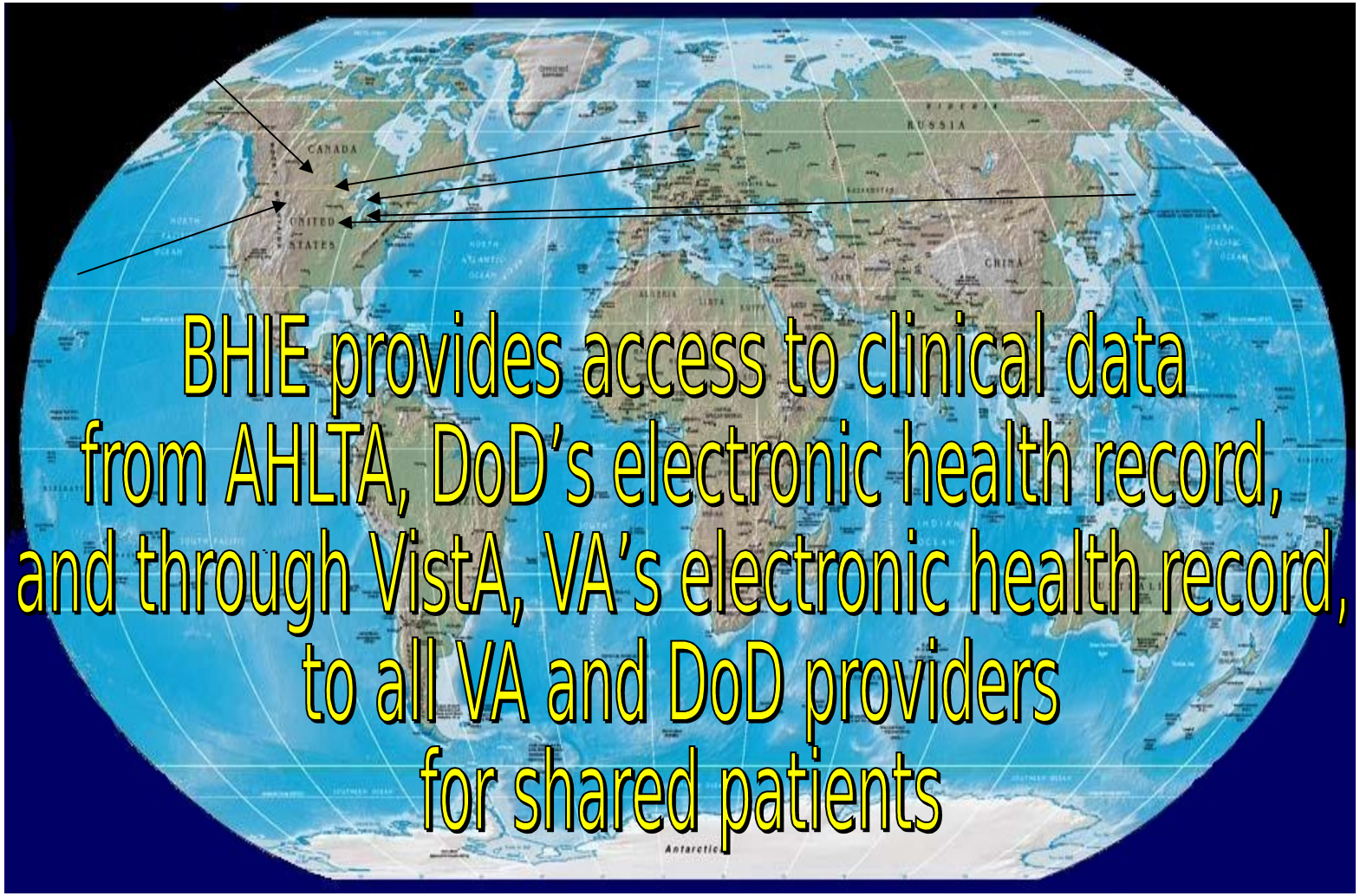

VistA CPRS in use by: Givens,Dale (10.4.229.36)
File Edit View Tools Help
CTEST,CARL
000-00-1103 Jan 01,1950 (56)
BASS Jan 23,06 10:00
Provider: GIVENS,DALE
FAIRBANKS PC / Doctor,James D
Flag
Remote Data
Postings
WA
Active Problems
Coronary Artery Disease
Cerebrovascular Disorders
Hypertension
Hyperlipidemia
Hematospermia
Anticoagulation
Sensorineural Hearing Loss
Allergies / Adverse Reactions
Erythromycin
Postings
Allergies
Non-VA Medications May 22,2003
Non-VA Medications Mar 05,2003
Non-VA Medications Feb 28,2003
Non-VA Medications Jan 22,2003
Non-VA Medications Nov 02,2001
Non-VA Medications Oct 12,2001
Active Medications
Non-VA Warfarin (coumadin) Na 5mg Tab Active
Clinical Reminders
Due Date
DIABETIC A1C DUE NOW
DIABETIC EDUCATION DUE NOW
In VistA, click the Remote Data button to launch the Remote Data Viewer.
Recent Lab Results
Glucose-Poc Blood Wc Lb #1466 Jan 23,06
Vitals
T 102.2 F Jan 23,06 (39.0 C)
P 88 Jan 23,06
R 19 Jan 23,06
BP 212/98 Jan 23,06
HT 66 in Jan 23,06 (167.6 cm)
WT 175 lb Jan 23,06 (79.5 kg)
PN 2 Jan 23,06
Appointments/Visits/Admissions
Jan 23,2006 10:00 Bassett Checked Out
Cover Sheet Problems Meds Orders Notes Consults D/C Summ Labs Reports
start
ANC - KEA! 420
Gmail - Inbox - Micros...
CPRS - Patient Chart
untitled - Paint
10:07 AM

Shared Patients (BHIE Data) — Planned

- Inpatient consults (3/08)
- Operative reports (3/08)
- Vital signs (6/08)
- Family history (9/08)
- Social history (9/08)
- Other history (9/08)
- Questionnaires and forms (9/08)

These data elements will be added to BHIE in 2008

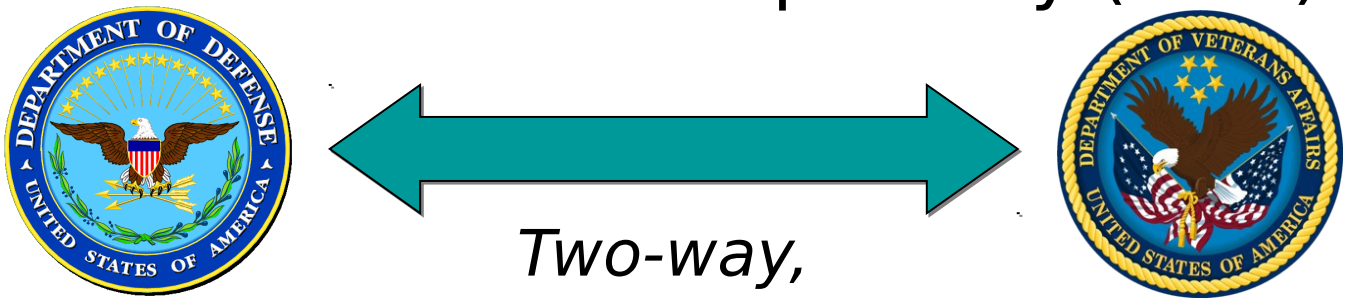
BHIE Worldwide



BHIE provides access to clinical data from AHLTA, DoD's electronic health record, and through VistA, VA's electronic health record, to all VA and DoD providers for shared patients

Computable Data

The Clinical Data Repository/Health Data Repository (CHDR) supports interoperability between
DoD's Clinical Data Repository (CDR) &
VA's Health Data Repository (HDR)



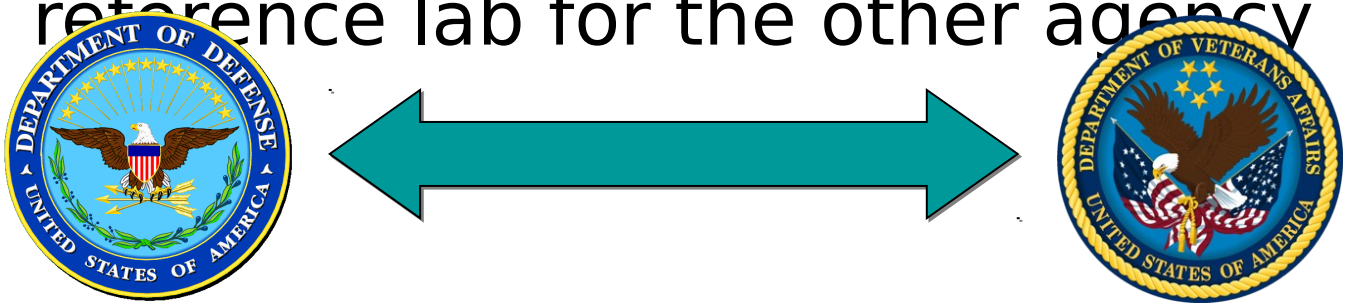
Two-way,
Enterprise exchange,
Computable data

Computable Data (CHDR)

- Standardized, computable data
  - Outpatient pharmacy data
  - Medication allergies
- Current capability
  - Computable data supports real-time drug-drug and drug allergy checks using data from both DoD and VA
  - For patients set as active dual consumers (ADCs), data is seen everywhere CHDR is available
  - All DoD sites have the capability to set ADCs
- Future enhancements
  - Laboratory (chemistry and hematology) data
  - Automated activation of ADCs

Order Portability

The Laboratory Data Sharing Initiative (LDSI) supports bidirectional electronic order entry and results retrieval of chemistry laboratory tests with either DoD or VA acting as a reference lab for the other agency

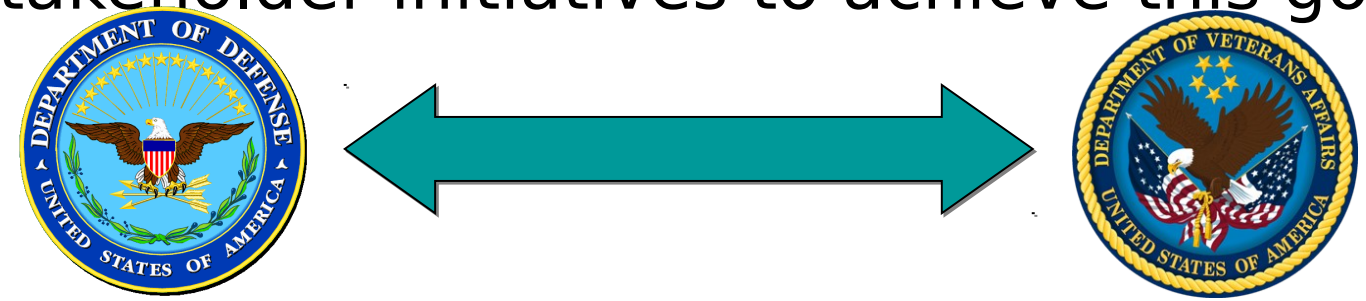


Order Portability (LDSI)

- Available for use throughout DoD and VA
- Used daily where one Department serves as a reference lab for the other
- Addition of lab anatomic pathology (AP) and microbiology orders/results in FY 2007

Image Sharing

DoD and VA have adopted a phased approach to achieve an image sharing solution. The phased approach integrates multiple systems and leverages existing stakeholder initiatives to achieve this goal



Wounded Warrior Image Transfer

- Digital radiology images and scanned medical records for severely wounded warriors sent from DoD to VA when the decision is made to transfer the patient
- Data transfer initiated March 2007, additional sites added August 2007

Walter Reed Army Medical Center

National Naval Medical Center

Brooke Army Medical Center

Tampa Polytrauma Center

Palo Alto Polytrauma Center

Minneapolis Polytrauma Center

Richmond Polytrauma Center

BHIE Imaging

- El Paso NDAA imaging demonstration project
- Leverages BHIE infrastructure and expands it to accommodate images
- Primary focus is for sharing radiology images between DoD and VA facilities in a specified geographic region
- Provides lessons-learned and technology components for enterprise-wide image sharing
- Future activities
  - Add other imaging modalities such as EEGs

JIF Imaging Project

- Enterprise-level Joint Incentive Fund project
- Builds on VA's existing Vista Imaging capability and DoD's imaging enhancements to AHLTA
- Sharing between AHLTA and VistA of:
  - Referential quality radiology images
- Image import reconciliation
- DoD/VA Image registry
- To be deployed to initial sites in summer and fall of 2008
- Further deployment pending lessons learned from initial deployment sites and funding

Theater Images

- Significant image sharing among theater medical facilities is ongoing
- Bandwidth constraints and labor-intensive manual processes impede ease of sharing
- Plan has been submitted to:
  - Provide increased bandwidth
    - Intra-theater
    - Theater to Landstuhl
  - Automate the linkage of patient demographic information with the image
  - Implement a storage/archive capability for theater images

Potential Joint DoD / VA Health IT Initiatives

- Joint Inpatient Electronic Health Record
  - Similar requirements, unique opportunity
  - Good timing, potentially substantial benefits
    - Continuity of inpatient care
    - Cost savings from economies of scale
    - Ability to address requirements at joint medical facilities
- eBenefits Web Portal
  - Recommendation of Dole/Shalala commission (7/07)
  - “One-stop” for health and benefits information

SOC, OIPT, and LOAs – Structure

Senior Oversight Committee (SOC)
Co-Chairs:
DEPSECDEF and DEPSECVA

Incoming from other commissions

Congress & Media

Overarching Integrated Product Team (OIPT)

Full-time staff and VA Detail

Press Releases

Lines of Action (LOAs)

1 **Disability System**

2 **Traumatic Brain Injury / PTSD**

3 **Case Management**

4 **DoD/ VA Data Sharing**

5 **Facilities**

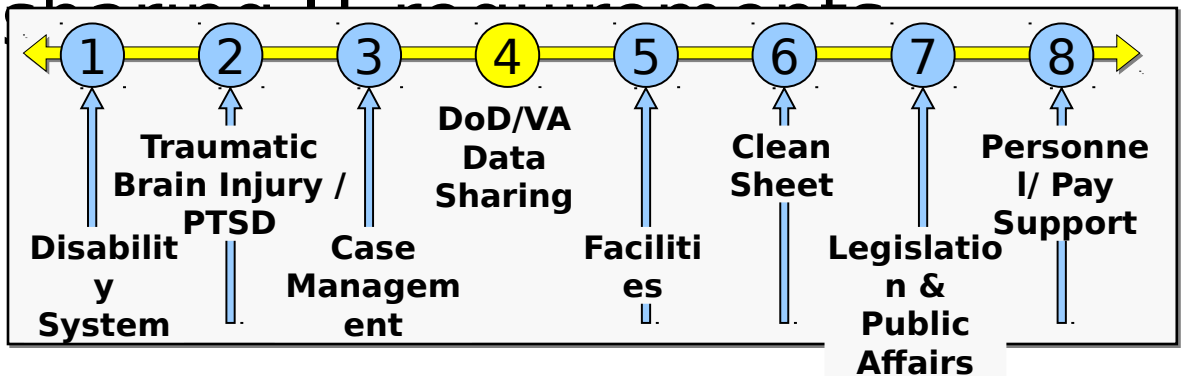
6 **Clean Sheet**

7 **Legislation & Public Affairs**

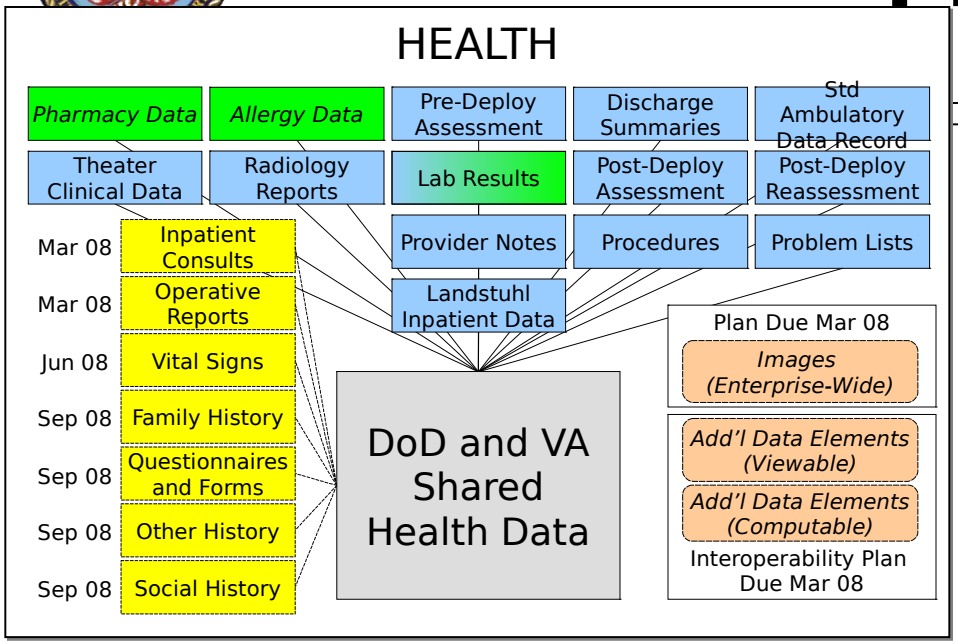
8 **Personnel/ Pay Support**

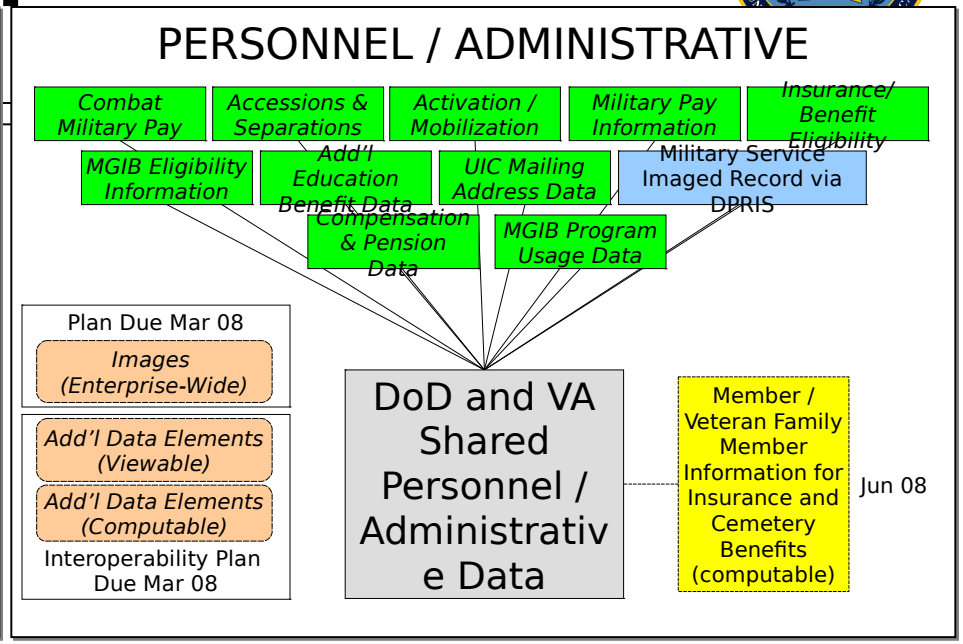
Line of Action #4

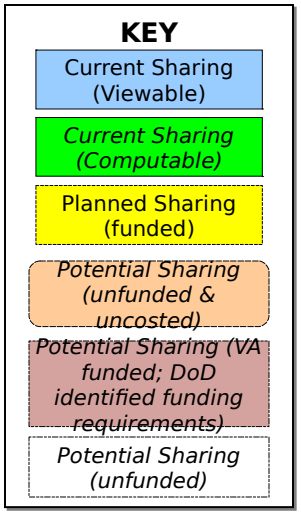
- Ensure appropriate demographic, personnel, and medical information on Service members and Veterans is visible, accessible, and understandable through secure, interoperable information management systems
- Coordinate across other Lines of Action for data sharing IT requirements

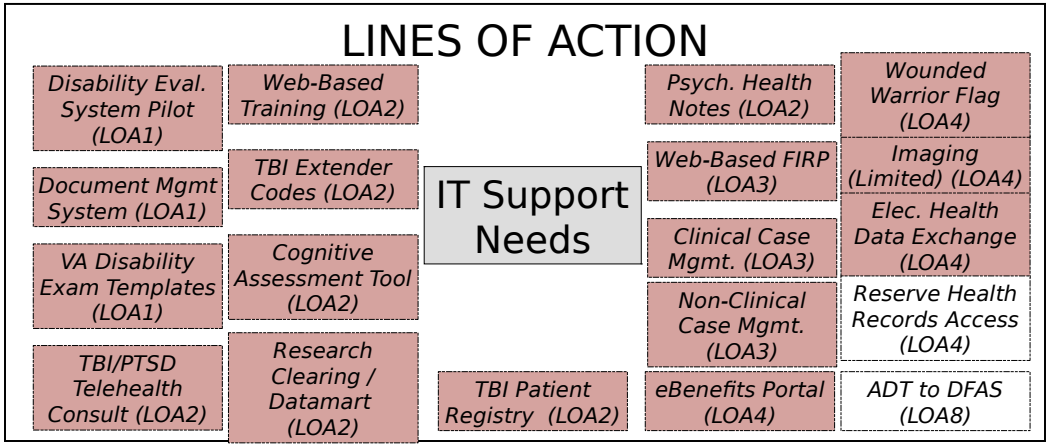


Data Sharing and IT Support

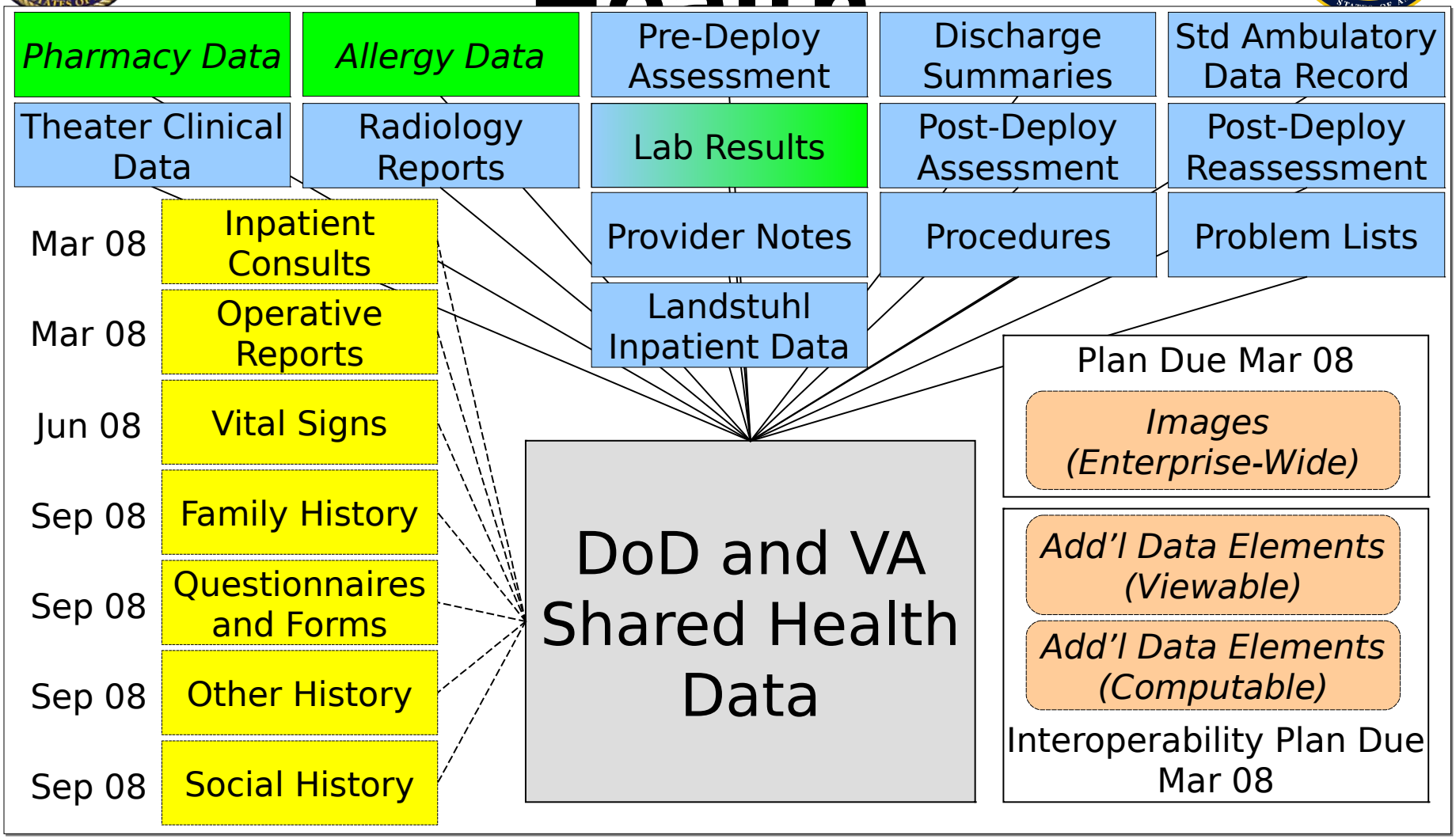




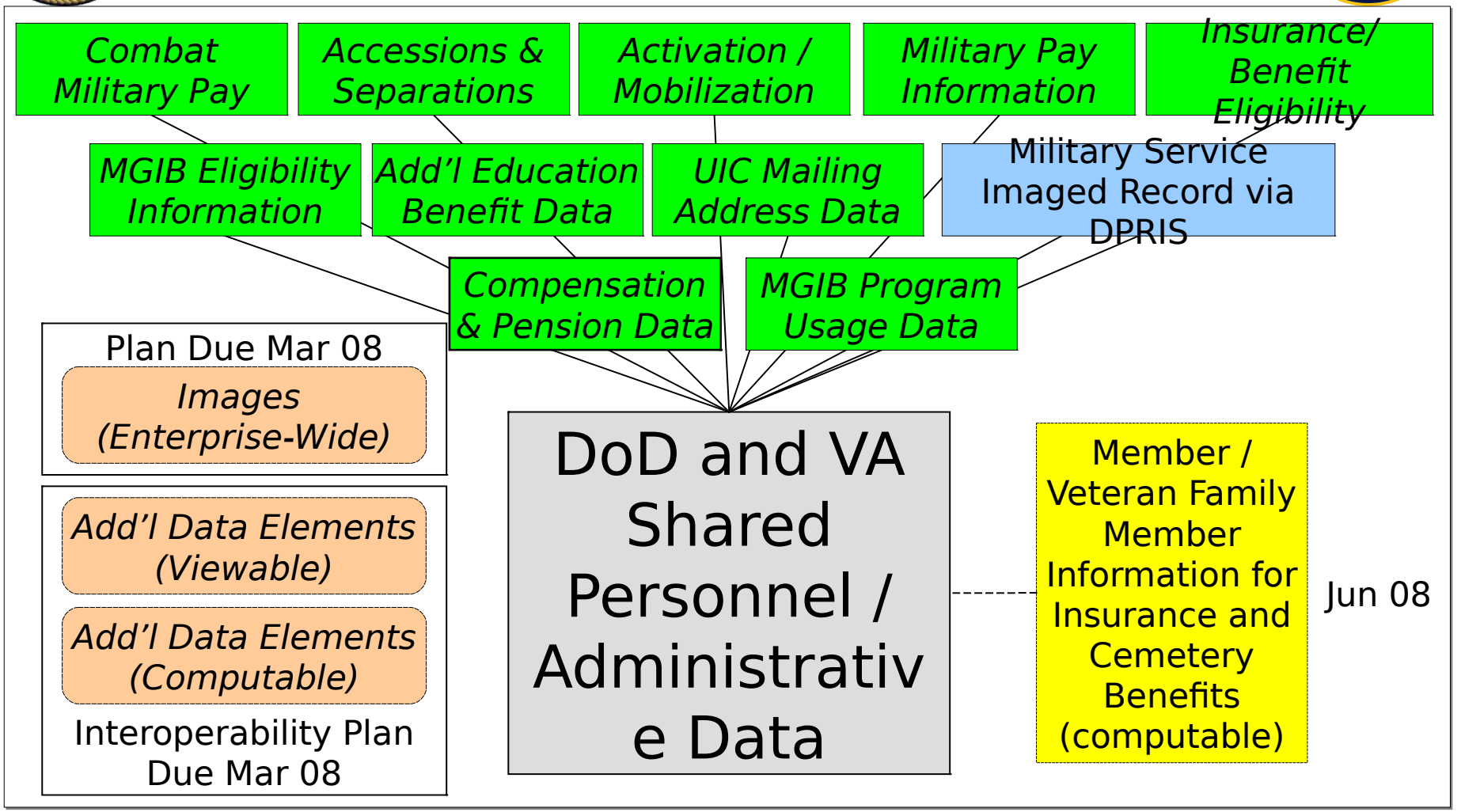




Data Sharing – Health



Data Sharing – Personnel/Admin



KEY

Current Sharing (Viewable)

Current Sharing (Computable)

Planned Sharing (funded)

Potential Sharing (unfunded & uncosted)

IT Support for Lines of Action

DoD / VA information management and information technology groups have developed high-level requirements and rough order of magnitude cost estimates for 18 capabilities.

Disability Eval. System Pilot (LOA1)

Document Mgmt System (LOA1)

VA Disability Exam Templates (LOA1)

TBI/PTSD Telehealth Consult (LOA2)

Web-Based Training (LOA2)

TBI Extender Codes (LOA2)

Cognitive Assessment Tool (LOA2)

Research Clearing / Datamart (LOA2)

IT Support Needs

TBI Patient Registry (LOA2)

Psych. Health Notes (LOA2)

Web-Based FIRP (LOA3)

Clinical Case Mgmt. (LOA3)

Non-Clinical Case Mgmt. (LOA3)

eBenefits Portal (LOA4)

Wounded Warrior Flag (LOA4)

Imaging (Limited) (LOA4)

Elec. Health Data Exchange (LOA4)

Reserve Health Records Access (LOA4)

ADT to DFAS (LOA8)

KEY

Potential Sharing (VA funded; DoD identified funding requirements)

Potential Sharing (unfunded)

The Way Ahead

- Coordinating across Lines of Action to provide IT support for Wounded Warrior initiatives
- Integrating health data sharing and personnel / administrative data sharing
- Expanding data sharing to include additional viewable and computable data elements
- Monitoring the evolving needs of returning Wounded Warriors
- Addressing recommendations of Wounded Warrior commissions and task forces and the DoD/VA Joint Clinical Information Board